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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/566,471	09/20/2006	Yoshiaki Kumamoto	285480US0PCT	5691
22850	7590	09/15/2010	EXAMINER	
OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, L.L.P.			NAMAY, DANIEL ELLIOT	
1940 DUKE STREET				
ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER
			3749	
			NOTIFICATION DATE	DELIVERY MODE
			09/15/2010	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary	Application No.	Applicant(s)
	10/566,471	KUMAMOTO ET AL.
	Examiner Daniel E. Namay	Art Unit 3749

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If no period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 09 July 2010.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-23 is/are pending in the application.
 4a) Of the above claim(s) 12-23 is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 1-11 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on 31 January 2006 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO/IDS/06)
 Paper No(s)/Mail Date _____

4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date _____
 5) Notice of Informal Patent Application
 6) Other: _____

DETAILED ACTION

Response To Amendment

1. The Amendments submitted on 09 July 2010 have been received, & its contents have been carefully considered. The Examiner wishes to thank the Applicants for the response to the Examiner's action and for amending the claims in the appropriate manner. In response to the amendment:

- A. The Specification is amended;
- B. The Objection to the Drawing is maintained; &
- C. The Rejection under 35 U.S.C. § 112, second paragraph, is maintained.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

4. Claims 1-3, 5, 6, 10 & 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP-2572621, hereinafter referred to as **JP-621**.
5. In Re Claim 1, **JP-621** (See attached TRANSLATION) discloses all aspects of the claimed invention, including:
 - A. A warming device of sheet form comprising:
 - i. (**P. 1, Under "Industrial Application"**) a heat generating molded article prepared by papermaking (**P. 3, Ln. 10-15**) and containing an oxidizable metal (**Iron Powder**), a moisture retaining agent (**Activated Carbon**), and a fibrous material; and an air permeable holder holding the heat generating sheet (**#2**),
 - ii. the warming device having a thickness of 0.1 to 10 mm (**P. 3, Ln. 13-14: 2-8mm, preferably 0.2-10mm**);
 - B. Except: a flexural strength of 0.01 to 0.3 N/cm. Nevertheless, it was well known at the time of the invention that the flexural strength is related to thickness of the sheet material. it would have been obvious to one of ordinary skill in the art at the time of the invention to select the flexural strength in the range specified as required to maintain component integrity.
6. In Re Claim 10, **JP-621** discloses the warming device, heat generating molded article, oxidizable metal, a moisture retaining agent, fibrous material & air permeable holder, as discussed in Claim 1 above, & further discloses no insulating sheet between the air permeable sheet & molded sheet (**Fig. 1, 2: No insulating layer is shown**).

7. In Re Claim 2, the thickness, in the range of 0.1-2.0mm, has been discussed in Claim 1 above.

8. In Re Claim 3, **JP-621** discloses all aspects of the claimed invention except: the fibrous material has a CSF of 600 ml or less. However, it is a matter of design choice for one skilled in the art at the time of the invention to optimize the CSF of the fibrous material for the required application.

9. In Re Claim 5, **JP-621** discloses: the holder comprises an air permeable sheet and an air impermeable sheet joined together (**P. 3, Ln. 18-24**), and has a surfacing member disposed on the outer surface of each of the air permeable sheet and the air impermeable sheet (**Adhesive Layer #4**).

10. In Re Claim 6, **JP-621** discloses: the surfacing member on the air impermeable sheet retains a functional preparation (**The adhesion of Adhesive Layer #4 is a functional preparation**).

11. In Re Claim 11, the thickness of the warming device has been discussed in Claim 1 above. The range of 1-30mm would have been an obvious matter of design choice since applicant has not disclosed that a thickness greater than 10mm solves any stated problem or is for any particular purpose (**Para. 34**) and it appears that the invention would perform equally well with a thickness in the range up to 10mm..

12. Claim 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over **JP-621**, as applied to Claim 1 above, in view of JP-2003-102761, referred to as **JP-761**.

13. In Re Claim 4, **JP-621** discloses all aspects of the claimed invention except: the molded sheet contains 50% by weight or more of the components other than the fibrous material.

- A. Nevertheless, **JP-761** discloses material component other than fibrous material being 50% or greater (**Para. 10-15**)
- B. It would have been obvious to one of ordinary skill in the art at the time of the invention to provide the non-fibrous components of **JP-621** at the percentage taught by **JP-761** to provide the desired / required amount of heat generation (**Para. 11**).

14. Claims 7-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over **JP-621** in view of **JP-1-158762**.

15. In Re Claim 7, **JP-621** discloses the warming device, heat generating molded article, oxidizable metal, a moisture retaining agent, fibrous material & holder, as discussed in Claim 1 above.

- A. However, **JP-621** fails to disclose: the warming device further comprising a non-liquid retentive, heat insulating sheet disposed in the holder.
- B. Nevertheless, **JP-1-158762** discloses an insulating layer (#1).
- C. It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the insulating layer of **JP-1-158762** into the article of **JP-621** to disperse the heat in the desired direction.

16. In Re Claim 8, the thickness & flexural strength have been discussed in Claim 1 above.
17. In Re Claim 9, the air permeable sheet has been discussed in Claim 5 above, & **JP-1-158762** further discloses the heat insulating sheet (#1) not disposed between the air permeable sheet (#3) and the molded sheet (#2).

Conclusion

18. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

19. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel E. Namay whose telephone number is (571) 270-5725. The examiner can normally be reached on Mon - Fri (Alt Fri) 7:00am - 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven B. McAllister can be reached on (571) 272-6785. The fax phone

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number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Daniel E. Namay/
Examiner, Art Unit 3749

/Steven B. McAllister/
Supervisory Patent Examiner, Art Unit 3749